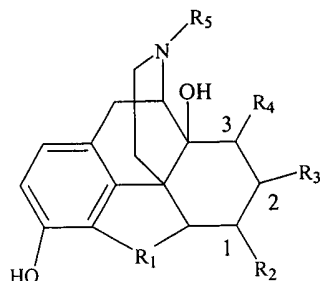


WHAT IS CLAIMED:

1. A composition of matter comprising:



5

wherein

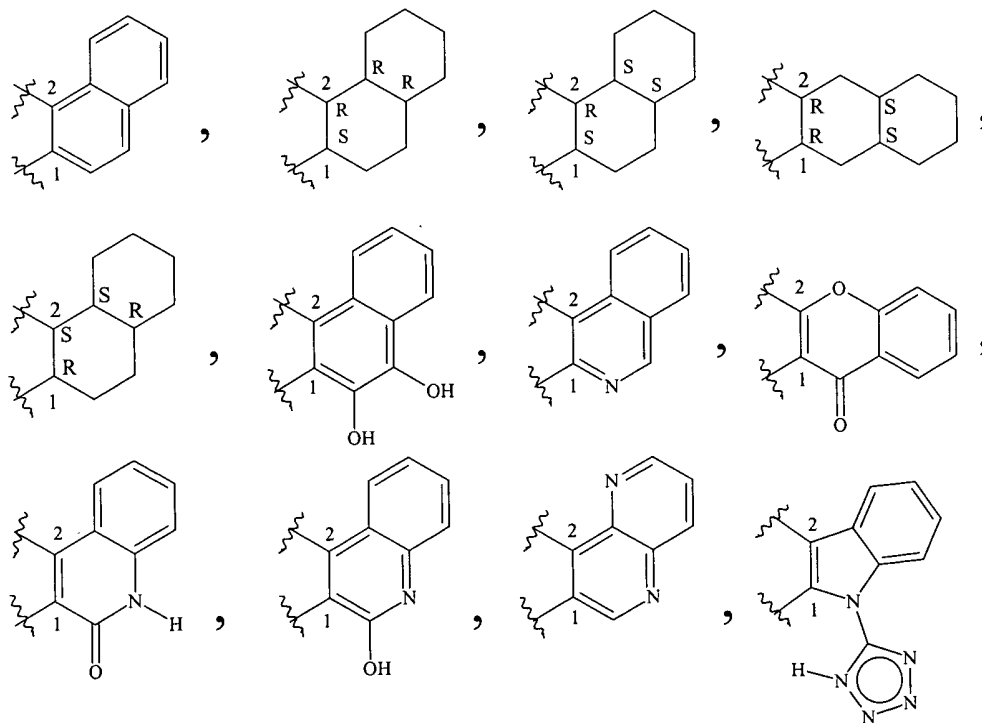
R₁ is O, NH, NR₆, S, SH, or SR₆;

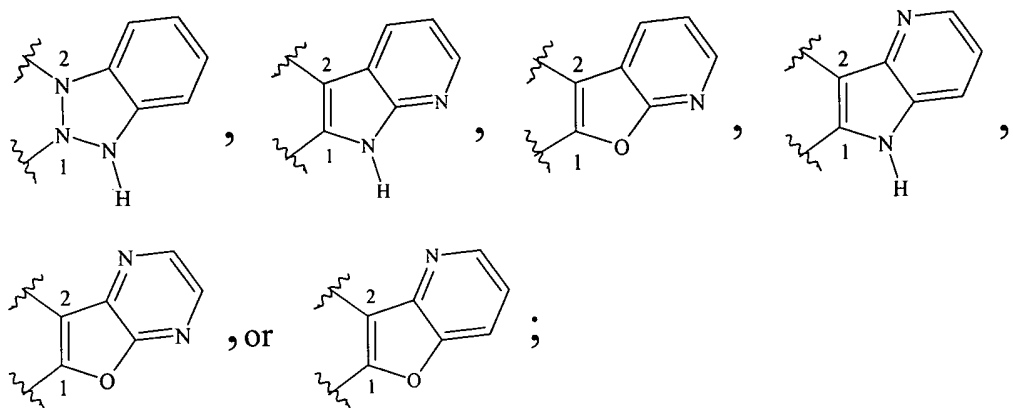
R₂ is H, =O, *t*-butyl, phenoxy, diphenylamine, thiophenyl, phenyl, or cyclohexane;

10

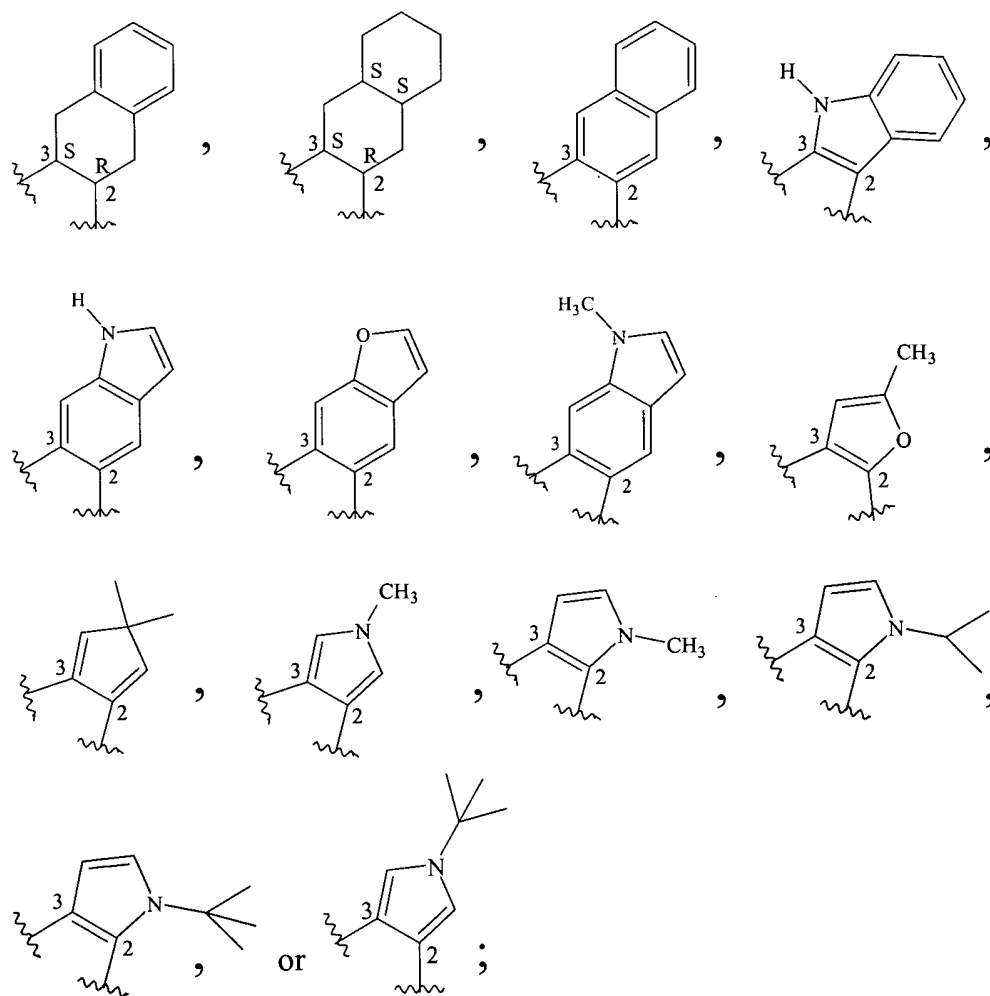
R₃ is phenyl or phenoxy;

wherein R₂ and R₃ comprise a ring system selected from:





or wherein R₃ and R₄ comprise a ring system selected from:



or

R₄ is H or *t*-butyl; and

R₅ is CH₃, methylcyclopropane, a linear alkyl, a branched alkyl, a substituted alkyl, or a substituted branched alkyl;

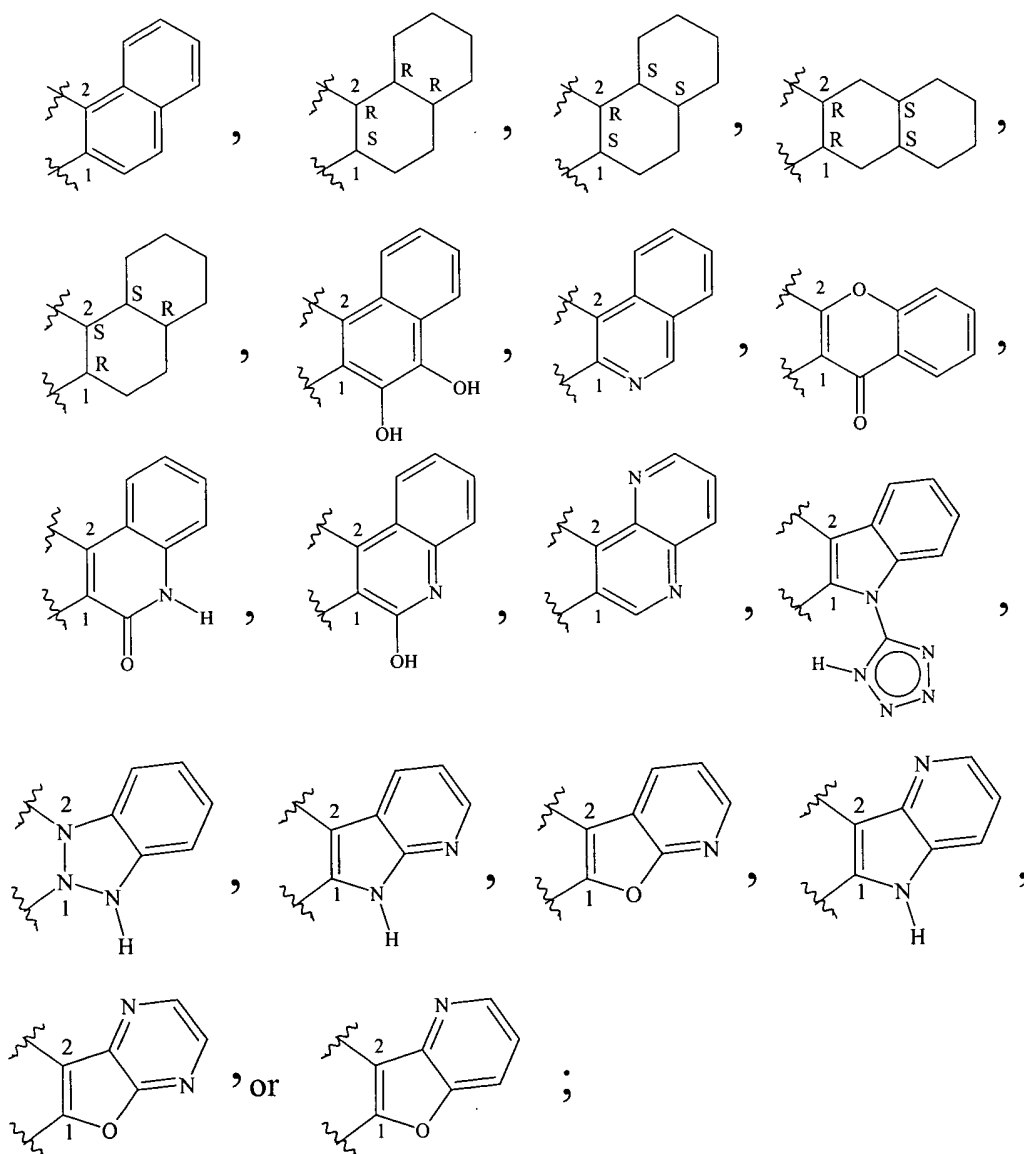
R₆ is H, CH₃, a linear alkyl, a branched alkyl, a substituted alkyl, or a substituted branched alkyl; or

a pharmaceutically acceptable salt thereof.

2. The composition of claim 1, wherein

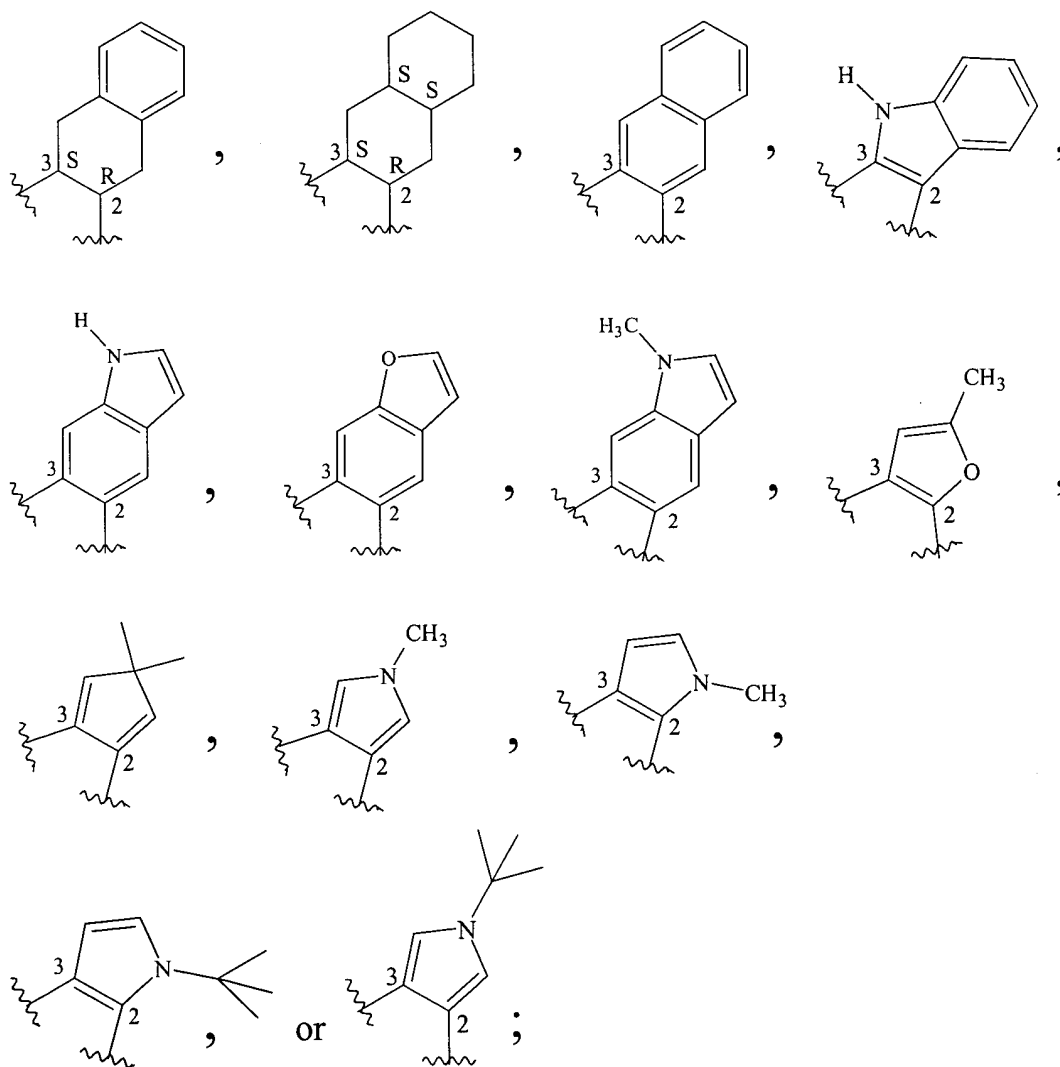
R₁ is O, or NH;

R₂ and R₃ comprise a ring system selected from:



R_4 is H;
 R_5 is methylcyclopropane; or
 or a pharmaceutically acceptable salt thereof.

- 5 3. The composition of claim 1, wherein
 R_1 is O, or NH;
 R_2 is =O;
 R_3 and R_4 comprise a ring system selected from:



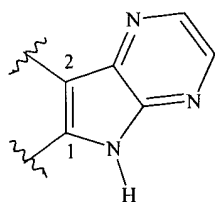
10 R_5 is methyl; or

a pharmaceutically acceptable salt thereof.

4. The composition of claim 1, wherein
R₁ is O, or NH;
5 R₂ is H, or =O;
R₃ is phenyl or phenoxy;
R₄ is H or *t*-butyl; and
R₅ is CH₃, methylcyclopropane, a linear alkyl, a branched alkyl, a substituted
alkyl, or a substituted branched alkyl;
10 or a pharmaceutically acceptable salt thereof.

5. The composition of claim 4, wherein R₅ is CH₃ or methylcyclopropane.

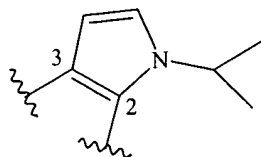
6. The composition of claim 1, wherein
15 R₁ is O, or NH;
R₄ is H;
R₅ is methyl; and
R₂ and R₃ comprise:



or a pharmaceutically acceptable salt thereof.

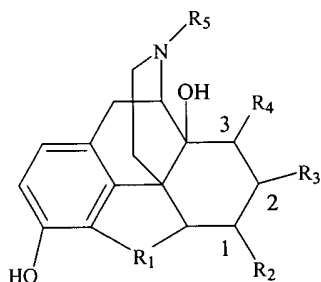
20

7. The composition of claim 1, wherein
R₁ is O, or NH;
R₂ is =O;
R₃ and R₄ comprise:



R₅ is methylcyclopropyl; or
a pharmaceutically acceptable salt thereof.

8. A pharmaceutical composition comprising a compound according to claim 1 and
5 a pharmaceutically acceptable carrier.
9. A pharmaceutical composition comprising a compound according to claim 7 and
a pharmaceutically acceptable carrier.
- 10 10. A method for treating disease mediated by the δ -opioid receptor comprising
administering an effective amount of a compound of the formula:



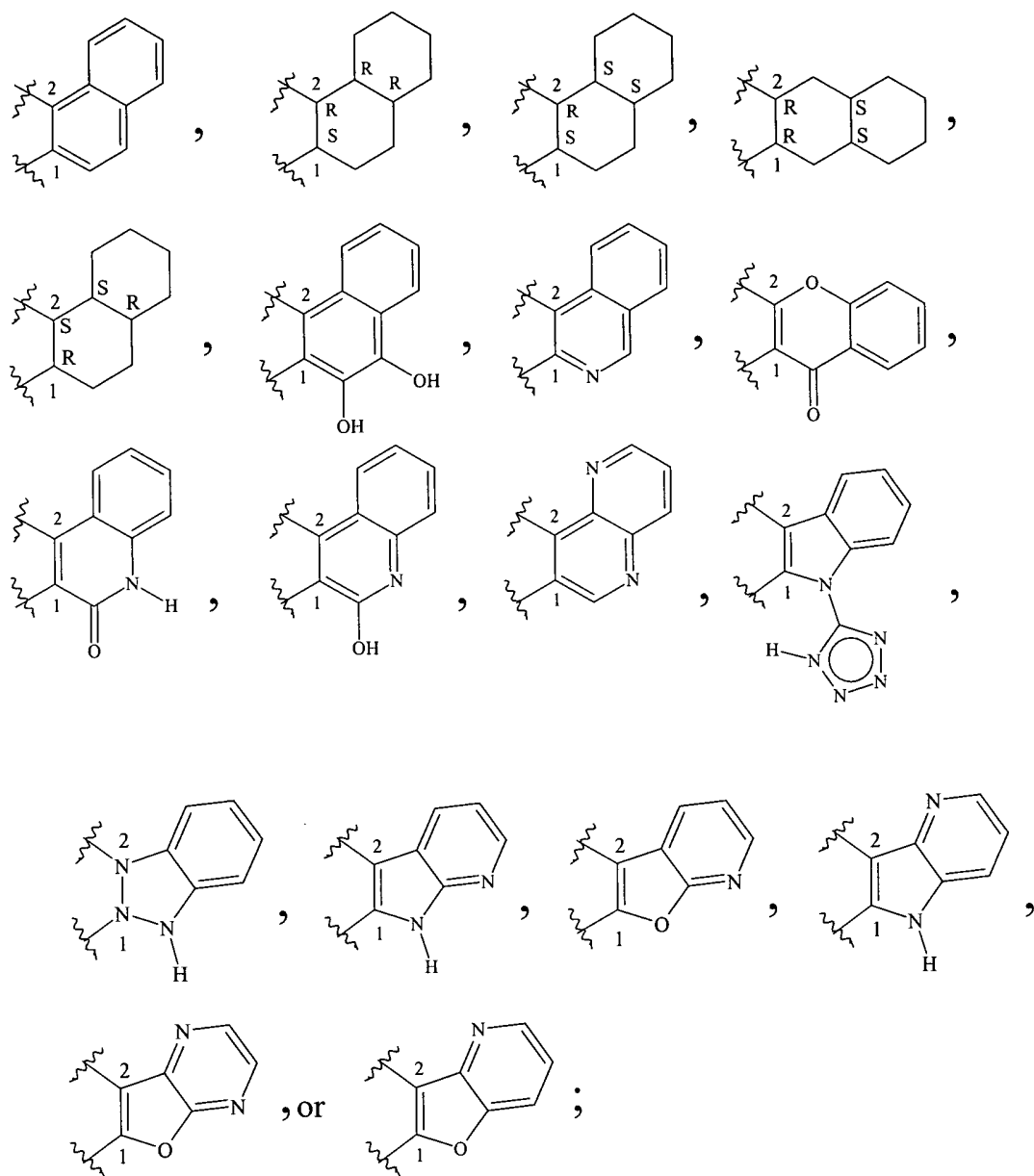
wherein

R₁ is O, NH, NR₆, S, SH, or SR₆;

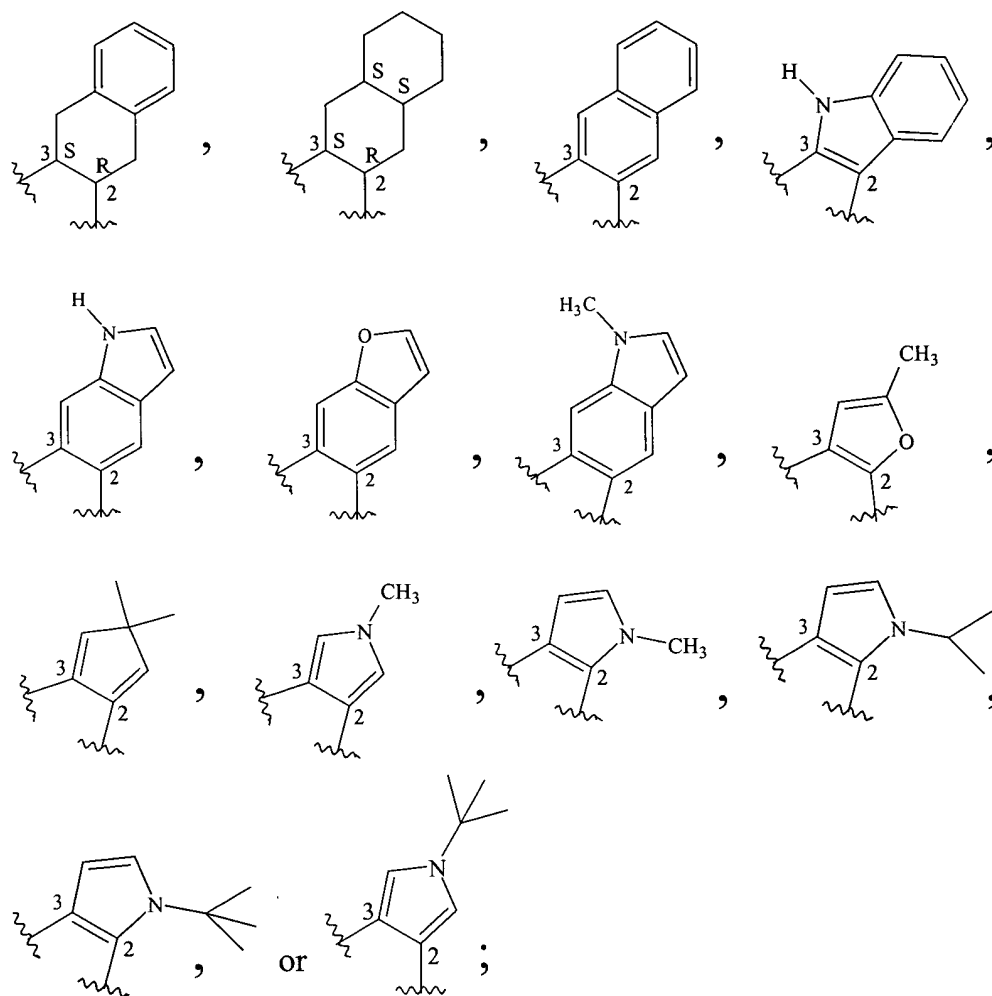
15 R₂ is H, =O, *t*-butyl, phenoxy, diphenylamine, thiophenyl, phenyl, or
cyclohexane;

R₃ is phenyl or phenoxy;

or wherein R₂ and R₃ comprise a ring system selected from:



or wherein R_3 and R_4 comprise a ring system selected from:



R₄ is H or *t*-butyl; and

R₅ is CH₃, methylcyclopropane, a linear alkyl, a branched alkyl, a substituted alkyl, or a substituted branched alkyl;

R₆ is H, CH₃, a linear alkyl, a branched alkyl, a substituted alkyl, or a substituted branched alkyl; or

a pharmaceutically acceptable salt thereof.

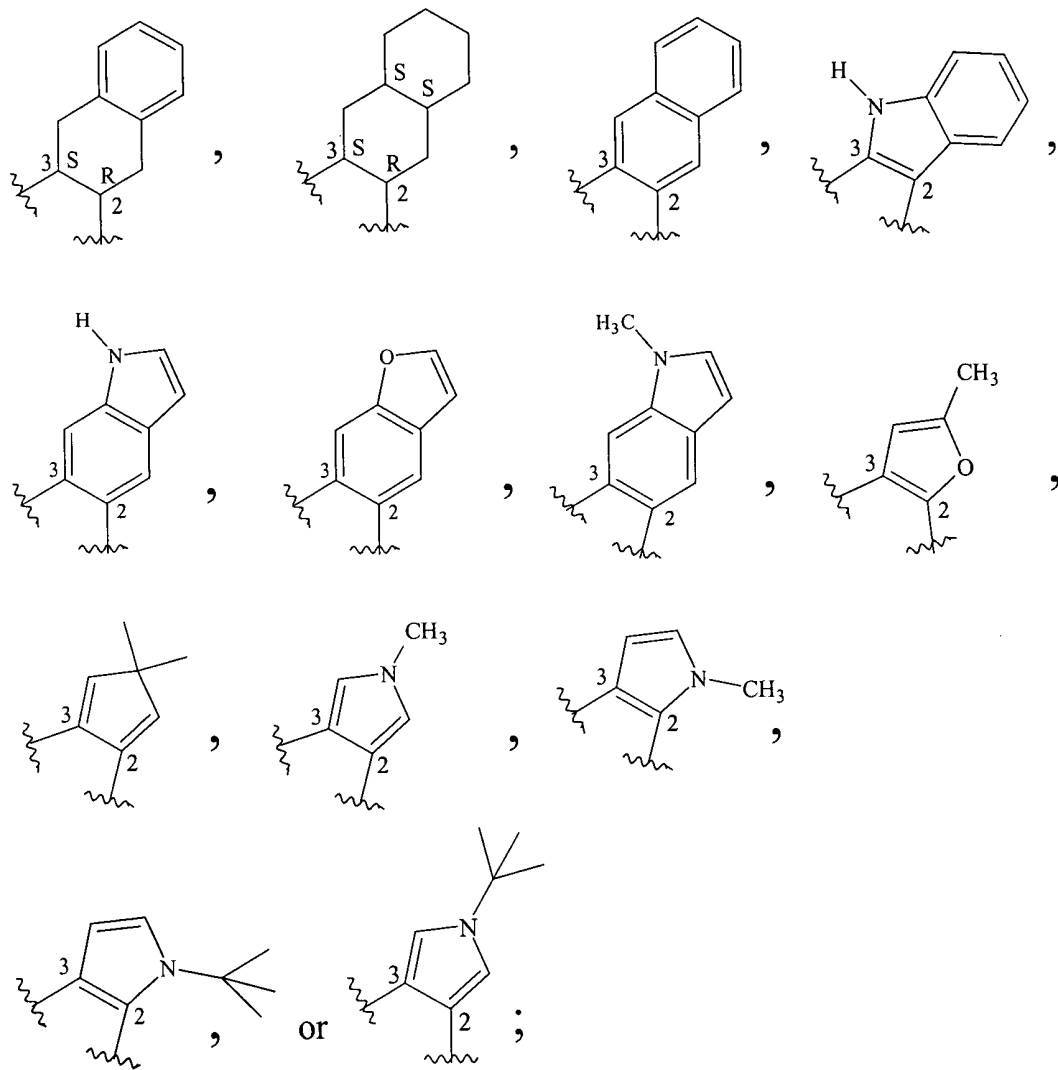
10 11. The method of claim 10 wherein:

R₁ is O, or NH;

R₂ and R₃ comprise a ring system selected from:

R₂ is =O;

R₃ and R₄ comprise a ring system selected from:



5 R₅ is methyl; or
a pharmaceutically acceptable salt thereof.

13. The method of claim 10 wherein:

R₁ is O, or NH;

10 R₂ is H, or =O;

R₃ is phenyl or phenoxy;

R₄ is H or *t*-butyl; and

R₅ is CH₃, methylcyclopropane, a linear alkyl, a branched alkyl, a substituted alkyl, or a substituted branched alkyl; or
a pharmaceutically acceptable salt thereof.

5

14. The method of claim 10, wherein R₅ is CH₃ or methylcyclopropane.

15. The method of claim 10, wherein R₁ is NH or O.

10 16. The method of claim 10, wherein R₂ is =O.

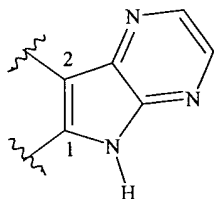
17. The method of claim 10, wherein

R₁ is O, or NH;

R₄ is H;

15 R₅ is methyl; and

R₂ and R₃ comprise:



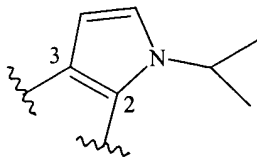
or a pharmaceutically acceptable salt thereof.

18. The method of claim 10, wherein

20 R₁ is O, or NH;

R₂ is =O;

R₃ and R₄ comprise:



R₅ is methylcyclopropyl; or
a pharmaceutically acceptable salt thereof.

19. The method of claim 10, wherein the disease comprises an immune disorder,
5 transplant rejection, allergy, inflammation, drug or alcohol abuse, diarrhea,
cardiovascular disease, or respiratory disease.
20. The method of claim 10, wherein treating of disease comprises treating pain,
protecting brain cells, or decreasing gastric secretion.

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